

Pressure or differential pressure measuring device

Patent Number: EP0764839
Publication date: 1997-03-26
Inventor(s): SCHLEIFERBOECK DETLEF (DE)
Applicant(s): ENDRESS HAUSER GMBH CO (DE)
Requested Patent: ☐ EP0764839
Application Number: EP19950114938 19950922
Priority Number(s): EP19950114938 19950922
IPC Classification: G01L19/04; G01L9/00
EC Classification: G01L9/12, G01L19/04
Equivalents:
Cited Documents: EP0071962; DE3839864; US4986127; DE2823875; DE3504329

Abstract

The gauge consists of a measuring arrangement (A), a pressure mediator (B) and an evaluation unit (C). A loop of resistance wire (32) extends along the connecting pipe (31) between a connection (2) on the measuring arrangement and a pressure pick-up (4) comprising a diaphragm (42) and a chamber (42). The evaluation unit contains a capacitance-measuring circuit (51) connected (15,16) to electrodes (13,14) sensing deflection of another diaphragm (11) in relation to the body (12) of a cylindrical cell (1). The signal (S1) is used to calculate (52) a value (S2) proportional to the uncorrected pressure measurement, which is corrected (55) by the result (K) of a calculation (54) performed on the total resistance measurement (53).

Data supplied from the esp@cenet database - I2